GLOBAL LEADER SERVING NUCLEAR, DOD AND AEROSPACE

NTS Huntsville is a leader in independent equipment testing, evaluation and certification. At our 115 acre, 238,000 sq. ft. laboratory, we provide services to the Department of Defense, NASA, government contractors, nuclear power, telecom, transportation industries and a variety of commercial customers. NTS Huntsville has on-site engineering, fabrication and qualification capabilities providing cradle-to-grave services including test definition, test procedure preparation, test and final test report submittal.

DYNAMIC/STRUCTURAL TESTING

- Vibration
  - Electrodynamic
  - Electrohydraulic
  - Load, dynamic and static
- Pyroshock
- Classical Shock
- Bird Strike / Impact
- HALT/HASS
- Mechanical - Tensile
- Shock Synthesis
- MIL-DTL-901E Light Weight Shipboard High Impact Shock
- Drop and Pre-Accelerated Drop
- Acceleration
- Pitch and Roll
- High Intensity Acoustic Noise
- Progressive Wave Acoustic Noise

ENVIRONMENTAL TESTING

- Climatics
  - Temperature/Humidity
  - Altitude/Solar
  - Sand/Dust
  - Salt Fog/Wind and Rain
  - Fungus
  - Explosive Atmosphere
  - Ice/Hail

- Fluid Flow
  - Air
  - Water
  - Hydraulics
  - Pneumatics
  - Fuels
  - Steam
  - Cryogenics

EMI/EMC TESTING

- Test and certify compliance to DoD and other industry standards to include:
  - MIL-STD-461
  - MIL-STD-704
  - MIL-STD-1275
  - MIL-STD-1399
  - EPRI TR-102323
  - RTCA/DO-160
  - IEC EN 61000 Series
  - Nuclear Regulatory Guide 1.180
  - ESD

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CALIBRATION SERVICES

- Areas of service:
  » Accelerometers
  » Humidity/Temperature
  » Pressure
  » DC/Low Frequency
  » Dimensional/Frequency
  » Mass/Resistance
  » pH/Torque

- 10CFR50 appendix B compliant
- ISO/IEC 17025 accredited by American Association for Laboratory Accreditation (A2LA)
- ANSI/NCSL Z540-1-1994
- NIST Traceable

NUCLEAR ENGINEERING & TEST SERVICES

- Safety Relief Valve Testing
  » ASME code verification
  » Set pressure, seat leakage and operability
  » Steam/water/air
- Valve Qualification
  » QME 1
  » Hot & cold cycle testing
  » Flow interruption testing
  » Steam/Hot water
  » Modal testing
- Equipment Qualification Testing
  » Functional testing
  » Thermal aging
  » Cycle aging
  » Seismic event simulation
  » Accident (LOCA) simulation
- Third-party Qualification/Commercial Grade Dedication
  » Dedicated parts inventory
- Custom Fluid Components Testing
  » Heat exchangers
  » Pumps
  » Strainers/Debris
  » Jet Impingement
- Equipment Qualification Services
  » Failure analysis
  » Thermal and radiation analysis
  » Qualification plan development
- Snubber Testing
  » Snubber removal and re-installation
  » Visual inspection
  » On-site and in-house functional testing
  » On-site and in-house repair
- Strain Gage Installation
  » Strain gage electrical preparation
  » Strain gage installation to monitor vibration for power up-rate activities

ABOUT NTS

Since opening our doors in 1961, NTS has become one of the largest commercial test laboratory networks in North America. Our test, inspection and certification services span environmental, dynamics, EMC, product safety and much more. NTS engineers have exceptional knowledge in all test and conformity requirements in both domestic and international arenas. Our client partners in Aerospace, Defense, Telecom and Energy rely on NTS to deliver quality products to market quickly and efficiently, and so can you.